

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1-20. (cancelled)

21. (previously presented) A method for making an electroconductive ink comprising adding carbon fibrils to a liquid vehicle to form a solution, said carbon fibrils being substantially cylindrical, having one or more graphitic layers concentric with their cylindrical axes, being substantially free of pyrolytically deposited carbon overcoat, said carbon fibrils having a substantially uniform diameter between 0.4 nm and 100 nm, said fibrils having a length to diameter ratio greater than 5;
milling said carbon fibrils in said solution; and
filtering said solution to form said electroconductive ink.

22. (original) The method of claim 21, further comprising the step of mixing a polymeric binder with the liquid vehicle before adding said carbon fibrils.

23. (previously presented) The method of claim 76, wherein said dispersing step is performed by sonication.

24-25. (cancelled)

26. (previously presented) The method of claim 22, wherein said polymeric binder is selected from the group consisting of vinyl chloride, vinyl acetate, hydroxyalkyl acrylate, vinyl alcohol, cellulose acetate butyrate, hydroxyethyl cellulose, carboxymethyl cellulose, acrylic-based polymers, and combinations thereof.

27 (original) The method of claim 21, wherein said liquid vehicle is a nonhydrocarbon polar organic solvent.

28. (original) The method of claim 21, wherein said liquid vehicle is selected from the group consisting of carbitol, carbitol acetate, butyl carbitol, butyl carbitol acetate, butyrolactone, acetone, methyl ethyl ketone, cyclohexanone, dibasic ester solvent, diglyme, high boiling alcohols, alcohol esters, and water.

29. (cancelled)

30. (original) The method of claim 21, wherein said liquid vehicle has a boiling point from about 150°C to 200°C.

31. (original) The method of claim 21, wherein the carbon fibrils are 3.5 to 70 nm in diameter with c-axes substantially perpendicular to the fibril axis.

32. (original) The method of claim 21, wherein the carbon fibrils have a fishbone morphology.

33. (original) The method of claim 21, wherein said carbon fibrils are in the form of aggregates.

34. (original) The method of claim 33, where said aggregates are selected from the group consisting of combed yarn aggregates, cotton candy aggregates, bird nest aggregates, open net aggregates, single wall ropes and mixtures thereof.

35. (original) The method of claim 21, wherein said carbon fibrils are oxidized multiwall carbon fibrils.

36-43. (cancelled)

44. (previously presented) An electroconductive coating made using a conductive ink made according to the method of 21.

45-75. (cancelled)

76. (previously presented) The method of claim 21 further comprising: dispersing said carbon fibrils in said solution following the step of adding said carbon fibrils.

77. (previously presented) The method of claim 22 further comprising: dispersing said carbon fibrils in said solution following the step of adding said carbon fibrils.

78. (previously presented) The method of claim 77, wherein said dispersing step is performed by sonication.

79-80. (cancelled)

81. (previously presented) The method of claim 22, wherein said liquid vehicle is a nonhydrocarbon polar organic solvent.

82. (previously presented) The method of claim 22, wherein said liquid vehicle is selected from the group consisting of carbitol, carbitol acetate, butyl carbitol, butyl carbitol acetate, butyrolactone, acetone, methyl ethyl ketone, cyclohexanone, dibasic ester solvent, diglyme, high boiling alcohols, alcohol esters, and water.

83. (cancelled)

84. (previously presented) The method of claim 22, wherein said liquid vehicle has a boiling point from about 150°C to 200°C.

85. (previously presented) The method of claim 22, wherein the carbon fibrils are 3.5 to 70 nm in diameter with c-axes substantially perpendicular to the fibril axis.

86. (previously presented) The method of claim 22, wherein the carbon fibrils have a fishbone morphology.

87. (previously presented) The method of claim 22, wherein said carbon fibrils are in the form of aggregates.

88. (previously presented) The method of claim 87, where said aggregates are selected from the group consisting of combed yam aggregates, cotton candy aggregates, bird nest aggregates, open net aggregates, single wall ropes and mixtures thereof,.

89. (previously presented) The method of claim 22, wherein said carbon fibrils are oxidized multiwall carbon fibrils.

90-96. (cancelled)

97 (previously presented) An electroconductive coating made using a conductive ink made according to the method of claim 22.

98-111. (cancelled)